

EUROS - Product brief



EUROS - The key to realtime

Our modern world is unimaginable without micro-processors and microcontrollers. In practically every area of our daily life they perform their tasks reliably and silently. They control and monitor, they switch and protect.

However, these little chips get their intelligence from software: sophisticated applications and powerful operating systems.

EUROS is one of those operating systems and represents the latest development of a family of real-time operating systems for all kinds of micro-processors and microcontrollers.

Because of its modular and hardware-independent concepts EUROS is suited for a wide range of applications:

- Embedded controllers
- Board systems
- Automation equipment
- Personal computers

EUROS at a glance

EUROS is the Enhanced Universal Real-Time Operating System. EUROS is a multitasking real-time operating system suitable for a wide range of applications.

EUROS...

- can be used for a wide range of applications because of its **modular** and **hardware-independent** concepts.
- is characterized by **short response times**, robustness and flexibility.
- allows **customization** of the operating system.
- is ROMable
- is a **hardware-independent software platform**. The base for EUROS versions for different microprocessors is a well-tested implementation in the C language.
- implements a powerful **driver interface** which operates on a hardware abstraction level allowing for the highest possible driver portability. A number of device drivers are available.
- carries your application into the **future**: new developments of hardware are covered by the Microkernel. More powerful chip versions can

be used while leaving the application unchanged.

- **hides hardware details** from the software developer. EUROS initializes chips and supports interrupt handling. Access to hardware is performed by **Port Drivers**.
- allows **multitasking** by utilizing the specific characteristics of a certain chip architecture.
- runs on IBM-compatible PCs. The PC is used as a **development system** and as a **test system**. Applications can be developed and tested on the PC. Application development can start even before the actual target hardware is available.
- allows access to the **Internet**. Remote monitoring and remote control can be realized with a **HTTP server**.
- opens up the possibility of **Java** in real-time applications. With the virtual machine **EUROSvm** Java applications can be run directly from ROM or Flash memory. **EUROSvm** is currently available as a pilot implementation on the PowerPC.
- is offered at a **moderate price** normally on buy-out basis. **EUROS** harmonizes the efforts aiming in establishing a uniform operating system.

And finally, EUROS is "**Made in Germany**", you can reach our experts directly and without detours. Expertise and support is provided directly from the source.

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